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NOTICE OF ALLOWANCE AND FEE(S) DUE

23600

7590

04/21/2004

COUDERT BROTHERS LLP 333 SOUTH HOPE STREET 23RD FLOOR LOS ANGELES, CA 90071 EXAMINER ASSAF, FAYEZ G

ART UNIT

PAPER NUMBER

2872

DATE MAILED: 04/21/2004

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|----------------------|------------------|
| 09/823,173 | 03/29/2001 | Karsten Buse | 06618/618001/CIT3194 | 9127 |

TITLE OF INVENTION: TUNABLE HOLOGRAPHIC FILTER

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | YES | \$665 | \$300 | \$965 | 07/21/2004 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fee s. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), t: Mail

Mail Stop ISSUE FEE
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Alexandria, Virginia 22313-1450 (703) 746-4000 or <u>Fax</u> INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 23600 7590 04/21/2004 COUDERT BROTHERS LLP Certificate of Mailing or Transmission I hereby certify that this Fec(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. 333 SOUTH HOPE STREET 23RD FLOOR LOS ANGELES, CA 90071 (Depositor's name) (Signature (Date) APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/823.173 03/29/2001 Karsten Buse 06618/618001/CIT3194 9127 TITLE OF INVENTION: TUNABLE HOLOGRAPHIC FILTER **SMALL ENTITY** APPLN. TYPE **ISSUE FEE PUBLICATION FEE** TOTAL FEE(S) DUE DATE DUE YES nonprovisional \$665 \$300 \$965 07/21/2004 **EXAMINER** ART UNIT CLASS-SUBCLASS ASSAF, FAYEZ G 2872 359-015000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorneys or agents. If no name is listed, no name Number is required. will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); individual Corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): A check in the amount of the fee(s) is enclosed. □ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Advance Order - # of Copies The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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| 23600 | 7590 | 04/21/2004 | | EXAMINER | |
| | COUDERT BROTHERS LLP 333 SOUTH HOPE STREET | | | ASSAF, FAYEZ G | |
| 23RD FLOOR | • | | | ART UNIT | PAPER NUMBER |
| LOS ANGELE | S, CA 900 | A 90071 | | 2872 | |
| | | | DATE MAILED: 04/21/2004 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 177 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 177 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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|---|--|---|---------------------------|
| | Application N . | Applicant(s) | |
| | 09/823,173 | BUSE ET AL. | |
| Notic of Allowability | Examiner | Art Unit | |
| | Fayez G. Assaf | 2872 | |
| The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to | plication. If not include will be mailed in due | ed course. THIS |
| 1. \boxtimes This communication is responsive to <u>the Response filed 4/</u> | <u>/2/2004</u> . | | |
| 2. X The allowed claim(s) is/are 2,4-7,9-11,13-22,25-27,30,31,3 | 38-41,43,49-55,59,61,63,64,77,83-8 <u>5</u> | 5 <u>,87-89 and 93-96</u> . | |
| 3. X The drawings filed on 29 March 2001 and 21 April 2003 are | e accepted by the Examiner. | | |
| 4. | | | |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGICA | nust be submitted. I AL MATERIAL. | Note the |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Notice of Informal P | atent Application (PT | O-152) |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. Interview Summary | (PTO-413), | - ·, |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 | Paper No./Mail Daí 08), 7. ☐ Examiner's Amendr | | |
| Paper No./Mail Date 4. | 8. 🛛 Examiner's Stateme | ent of Reasons for Allo | owance |
| of Biological Material | 9. | | |
| | | | |

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DETAILED ACTION

Allowable Subject Matter

Claims 2, 4-7, 9-11, 13-22, 25-27, 30, 31, 38-41, 43, 49-55, 59, 61, 63, 64, 77, 83-85, 87-89 and 93-96 are allowed.

Claims 2, 5-7, 9-11, 13-22, 25-27, 30, 31, are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the wavelength varying element including an element which physically moves the single hologram as set forth in the claimed combination.

Claims 38-41, 43, 49-55 and 59 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the step of adjusting the single hologram to separately optically process the one of said wavelengths differently from others of said wavelengths as set forth in the claimed combination.

Claims 61, 63 and 64 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the tuning element, wherein the tuning element changes by moving the single hologram as set forth in the claimed combination.

Claims 77 and 83-85 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably

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suggest the tuning system comprising an element which mechanically rotates the holographic material as set forth in the claimed combination.

Claims 87, 88, 89, 93-96 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the tuning element operating to change the mechanical orientation of the holographic storage element as set forth in the claimed combination.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fayez G. Assaf whose telephone number is (571) 272-2307. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the

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organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fayez Assaf

Examiner
Art Unit 2872
4/19/04